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**(54) CATALYST FOR PURIFYING EXHAUST GAS****(57) Abstract:**

**PROBLEM TO BE SOLVED:** To further improve NOx reducibility of a catalyst contg. a multiple oxide of MgO·Al<sub>2</sub>O<sub>3</sub> or the like as a carrier and to maintain stable NOx purifying property of the catalyst even after it is used at high temp.

**SOLUTION:** This catalyst contains both of a catalyst A, in which a NOx occluding material element is deposited on a carrier contg. a multiple oxide expressed by MO·nAl<sub>2</sub>O<sub>3</sub>, and a catalyst B, in which

a novel metal is deposited on a carrier contg. a refractory other than MO·Al<sub>2</sub>O<sub>3</sub>. Reduction of a specific surface area or reduction of NOx occluding property of the first carrier can be prevented by effect of the catalyst A even if it is used at a high temp. region, and high NOx reducibility is maintained by effect of the catalyst B even if it is used at a high temp. region. Therefore durability of NOx purifying property is improved by coexisting both of the catalyst.

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